

Amendment to the Claims

This Listing of Claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

Claims 1 - 10 (Canceled)

11. (Original) A method of manufacturing a magnetic recording medium comprising:
depositing a first Co-containing layer on a substrate already coated with seedlayer and/or underlayer to promote appropriate crystallographic orientation and grain structure,
depositing a Co layer on the first Co-containing layer,
depositing a Ru layer on the Co layer and
depositing a second Co-containing layer on the Ru layer,
wherein the Co layer and/or the Ru layer are deposited in a gas environment comprising a moiety selected from the group consisting of Xe, Kr and combinations thereof.

12. (Original) The method of manufacturing a magnetic recording medium of claim 11,
wherein the gas environment has a gas pressure of less than 6 mTorr.

13. (Original) The method of manufacturing a magnetic recording medium of claim 11,
wherein the gas environment has a gas pressure of less than 5 mTorr.

14. (Original) The method of manufacturing a magnetic recording medium of claim 11,
wherein the magnetic recording medium has Jex of 0.1 erg/cm² or more.

15. (Original) The method of manufacturing a magnetic recording medium of claim 11, wherein the magnetic recording medium has Jex of 0.11 erg/cm² or more.
16. (Currently amended) The method of manufacturing a magnetic recording medium of claim 11, further comprising depositing a third Co-containing layer between the underlayer and the first Co-containing layer.[[.]]
17. (Original) The method of manufacturing a magnetic recording medium of claim 11, wherein the Ru layer has a thickness in a range of about 0.1 to 2 nm.
18. (Original) The method of manufacturing a magnetic recording medium of claim 11, wherein the thickness of the Co layer is in a range of about 0.1 to 2 nm.
19. (Original) The method of manufacturing a magnetic recording medium of claim 11, wherein the magnetic recording medium comprises
Cr/Cr₉₀W₁₀/Co₇₇Cr₈Pt₇B₈/Co₆₄Cr₁₂Pt₆B₈/Co/Ru/Co₆₁Cr₁₅Pt₁₂B₁₂/C.
20. (Canceled)
21. (Original) The method of claim 11, wherein the appropriate crystallographic orientation is a (200) orientation.

22. (Original) The method of manufacturing a magnetic recording medium of claim 11, further comprising depositing an additional Co-containing layer directly below the first Co-containing layer.

23. (Withdrawn) A magnetic recording medium made by the method of claim 11, wherein the magnetic recording medium has Jex of 0.1 erg/cm^2 or more.

24. (Withdrawn) A magnetic recording medium made by the method of claim 22, wherein the magnetic recording medium has Jex of 0.1 erg/cm^2 or more.

25. (Withdrawn) A magnetic recording medium, comprising $\text{Cr/CrW}/(\text{CoCrPtB})^1/(\text{CoCrPtB})^2/\text{Co/Ru}/(\text{CoCrPtB})^3/\text{C}$ layers, wherein the superscripts denote the layer number of the CoCrPtB-containing layers and the magnetic recording medium has Jex of 0.1 erg/cm^2 or more.

26. (Withdrawn) The magnetic recording medium of claim 25, wherein the magnetic recording medium has Jex of 0.11 erg/cm^2 or more.

27. (Withdrawn) The magnetic recording medium of claim 25, wherein the magnetic recording medium is a longitudinal magnetic recording medium.

28. (Withdrawn) The magnetic recording medium of claim 25, wherein the Co interlayer has a thickness in a range from about 1Å to about 20Å.